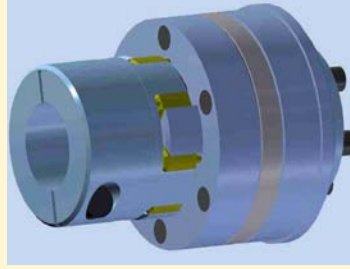
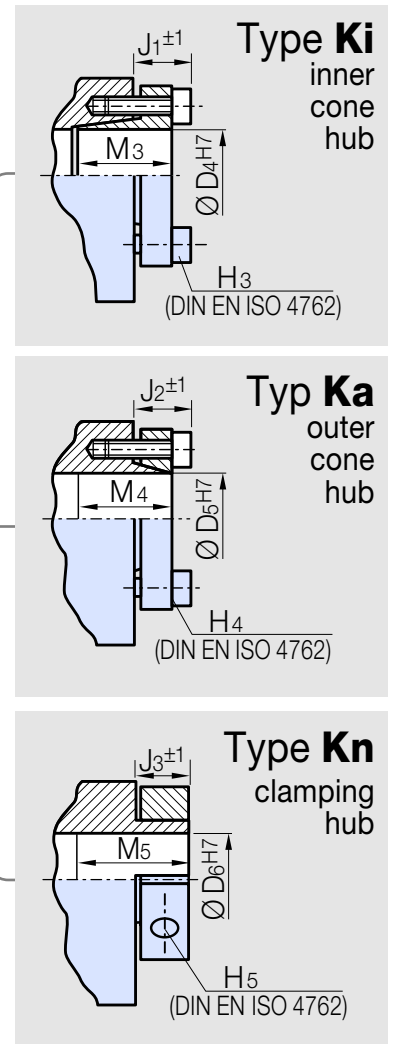
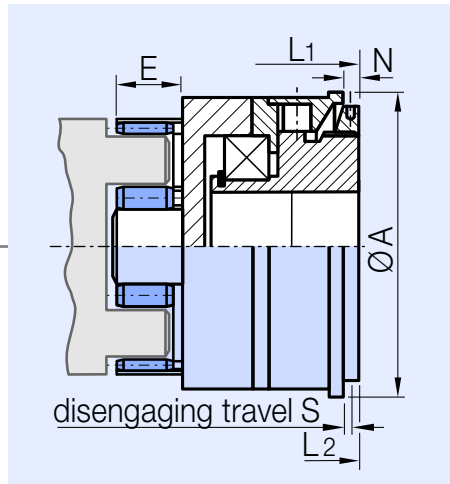
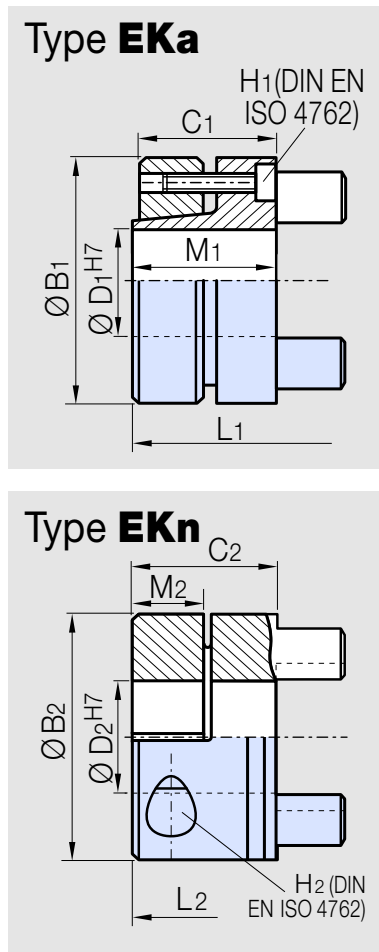


# Backlash-free Safety Couplings

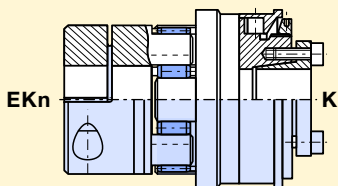


Series **DMK/E**:  
Safety Coupling  
with elastomer spider  
as torsionally elastic  
misalignment com-  
pensating element

## Series **DMK/E**



$$L_{\text{ges}} = L (1/2) + J (1/2/3)$$



**Ordering data**

**example** **DMK/E - 60 - EKn/25<sup>H7</sup> - Ki/20<sup>H7</sup> - 60Nm/b - C**

type

size

hub on elastomer side / bore size

inner conical hub on safety element side / bore size

disengaging torque / torque adjustment range

C = single position re-engagement (360°) standard;  
D = multi position re-engagement

**GERWAH®**

# Technical Data Series DMK/E

Size		30	60	150	300	500
Disengaging torque (Nm)	TKN version a	5-20	12-35	25-75	30-140	140-350
torque adjustment range	TKN version b	15-35	20-70	65-150	100-300	250-500
Moment of inertia (10 <sup>-3</sup> Kgm <sup>2</sup> )	J hub side	0,1	0,32	0,8	3	5
	J elastomer spider side	0,036	0,15	0,33	1,04	3,1
Weight (appr. Kg)	m	0,5	1,4	2,8	4,6	7,5
Tightening torque of retaining screw H1	(Nm) Ma	3	6	6	10	35
Tightening torque of clamping screw H2	(Nm) Ma	15	40	60/55	110/80	145
Tightening torque of retaining screw H3	(Nm) Ma	5	8,5	14	18	26
Tightening torque of retaining screw H4	(Nm) Ma	5	8,5	14	18	26
Tightening torque of clamping screw H5	(Nm) Ma	15	40	60/55	110/80	145
Max. rotational speed (rpm)	n <sub>max</sub>	8950	7000	6000	5000	3600
Disengaging travel (mm)	S	1,2	1,2	2	2	2
Standard shore hardness of spider		98 SH A (red) - (spider with different shore hardness available!)				
Max. allowable misalignment: see page 15						

	Size	30	60	150	300	500	
<b>EKa</b> outer cone hub dimensions (mm)	Ø A	65	75	95	115	129	
	Ø B1	45	55	65	80	105	
	C1	26,5	30	35	45	56,5	
	D1 <sup>H7</sup>	min. - max.	12-20	10-25	15-36	20-41	30-55
	E		18	18	20	24	28
	H1	DIN EN ISO 4762	M4	M5	M5	M6	M8
	L1		84	94	108	130	148
	L <sub>ges.</sub> = L1 + (J1) or (J2) or (J3)		96/106/99	109/117/118	125/138/134	151/160/160	169/184/182
	M1		26,5	30	35	45	56,5
	N		6	7	6	9	8
	<b>EKn</b> clamping hub dimensions (mm)	A	65	75	95	115	129
Ø B2		45	55	65	80	105	
C2		26,5	19	35	45	56	
D2 <sup>H7</sup>		min. - max.	12-24	10-28	14-38	15-45	25-55
E			18	18	20	24	28
H2		DIN EN ISO 4762	M5	M6	M8	M8	M8
L2			84	94	108	130	140
L <sub>ges.</sub> = L2 + (J1) or (J2) or (J3)			96/106/99	109/117/118	125/138/134	151/160/160	169/184/182
M2			26,5	30	21,5	31	38
N			6	7	6	9	8
Hub <b>Ki</b> inner cone dimensions (mm)		Ø D4	12-20	15-25	20-35	25-45	35-50
	H3	6 x DIN EN ISO 4762	M4	M6	M6	M8	
	J1		12	15	17	21	21
	M3		20	25	30	35	38
Hub <b>Ka</b> outer cone dimensions (mm)	Ø D5	12-20	15-25	20-35	30-45	35-50	
	H4	6 x DIN EN ISO 4762	M4	M5	M6	M8	
	J2		22	23	30	30	36
	M4		30	38	40	50	53
Hub <b>Kn</b> clamping hub dimensions (mm)	Ø D6	12-20	15-25	20-35	30-45	35-50	
	H5		M6	M8	M10	M12	
	J3		15	24	26	30	34
	M5		30	40	42	50	59

Bore size range D1/D2 and applicable transmissible torque values (Nm)	Typ	Ø10	Ø11	Ø13	Ø14	Ø15	Ø17	Ø19	Ø20	Ø24	Ø25	Ø27	Ø30	Ø32	Ø36	Ø38	Ø41	Ø42	Ø44	Ø48	Ø50	Ø55	Ø60
30	17	17	17	17	17	17	17	17	17														
60		22	37	46	56	60	60	60	60	60													
150					56	68	114	134	160	160	160	160	160										
300								134	230	261		325	325	325	325	325							
500												329	450	450	450	450	435	450	450	450	450	500	500

Couplings for torque ranges different from above also available!

**GERWAH®**